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The invention is intended to obtain a rotating electric machine with a built-in control device in which the control device is kept from receiving heat from a main body of the rotating electric machine and the control device can be cooled in a desirable fashion. A heat sink ~~(13)~~13 on which switching devices ~~(12)~~12 of a control device ~~(400)~~400 are mounted is attached to a rear bracket ~~(6)~~6 by means of conductive studs ~~(300)~~300 with a particular spacing provided in a left-to-right direction of FIG. 2. The heat sink ~~(13)~~13 is cooled by a flow of cooling air induced by an unillustrated fan. Since the control device ~~(400)~~400 is attached to the rear bracket ~~(6)~~6 of which temperature increases with the spacing provided therefrom, it is possible to suppress heat transfer from the rear bracket ~~(6)~~6 and effectively cool the control device ~~(400)~~400 through the heat sink ~~(13)~~13.